



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of

Zhaohui Sun, et al

METHOD AND SYSTEM FOR  
VIDEO FILTERING WITH JOINT  
MOTION AND NOISE  
ESTIMATION

Serial No.: 10/715,039

Filed 17 November 2003

Group Art Unit:

Examiner:

I hereby certify that this correspondence is being deposited today with the United States Postal Services as first class mail in an envelope addressed to Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450

*Robin G. Reeves*  
Name: Robin G. Reeves

Date:

*12/10/03*

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA. 22313-1450

Sir:

**INFORMATION DISCLOSURE STATEMENT FOR CONSIDERATION**  
**BY THE OFFICE UNDER 37 C.F.R. 1.97-1.99**

Enclosed herewith are patents and/or publications for consideration by the Patent and Trademark Office in regard to the invention claimed in the above-described application. In compliance with §1.56, such documents are listed in the enclosed Form PTO-1449.

Applicants request that the Patent and Trademark Office make of record the above-identified documents. A full text copy of each document is attached, except for copies of U.S. patents and U.S. patent application publications. For documents not in English, an English translation or an equivalent English language patent or publication may be attached. Where a translation is not available, a concise explanation of the relevance of each document not in English is included either here or in the specification.

This Information Disclosure Statement (hereinafter "Statement") is submitted according to the following selected paragraph:

- I.  This Statement is being filed under §1.97(b) within three months of the filing date of the application (other than a CPA), or before the mailing of a first Office action on the merits or before the mailing of a first Office action after the filing of a request for continued examination.
- II.  This Statement is being filed under §1.97(c), with fee, **prior** to the mailing date of any of a final action, a notice of allowance or an action that otherwise closes prosecution in the application. Please charge the fee required by §1.17(p) to Eastman Kodak Company Deposit Order Account Number 05-0225. A duplicate copy of this Certification is enclosed.

III.  This Statement is being filed under §1.97(c), with a certification under, §1.97(e) **prior** to the mailing date of any of a final action, a notice of allowance or an action that otherwise closes prosecution in the application. The undersigned hereby states that (check one):

each item of information contained in this Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement.

no item of information in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this certification under §1.97(e) after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated in §1.56(c) more than three months prior to the filing of this Statement.

IV.  This Statement is being filed under §1.97(d), with fee and certification under §1.97(e), on or after the mailing date of either a final action, a notice of allowance (but prior to payment of the issue fee) or an action that otherwise closes prosecution in the application. Please charge the fee required by §1.17(p) to Eastman Kodak Company Deposit Order Account No. 05-0225. A duplicate copy of this Certification is enclosed. The undersigned hereby states that (check one):

each item of information in this Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Statement.

no item of information in this Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this certification under §1.97(e) after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated in §1.56(c) more than three months prior to the filing of this Statement.

Respectfully submitted,



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Enclosures

FORM PTO-1449 US DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		Atty. Docket No. <b>87018DMW</b> Customer No. 01333	Serial No. <b>10/715,039</b>			
If AFTER the later date of the first Office Action or 3 months from filing, use only with Rule 97(E) Certificate or Fee						
LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)		Filing Date <b>17 November 2003</b>	Group			
<b>U.S. PATENT DOCUMENTS</b>						
Examiner Initial*	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	US 2002/0109788 A1	08-15-2002	Roger A. Mortion et al.	348	625	12/04-2001
	5,384,865	01-24-1995	Jennifer C. Loveridge	382	54	06-01-1992
	5,600,731	02-04-1997	Muhammed I. Sezan et al.	382	107	05-09-1991
	5,764,307	06-09-1998	Taner Ozcelik et al.	348	608	07-24-1995
	5,909,515	06-01-1999	Sherif Makram-Ebeid	382	260	07-01-1996
	6,281,942	08-28-2001	Albert S. Wang	348	607	08-11-1997
	6,535,254	03-18-2003	Kent Olsson et al.	348	607	04-06-1998

<b>FOREIGN PATENT DOCUMENTS</b>						
Examiner Initial*	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES      NO
	EP 0 614 312 B1	06-05-1999	EPO	H04 N	5/21	
	EP 0 840 514 A1	06-05-1998	EPO	H04 N	7/26	
	WO 01/97509 A1	12-20-2001	PCT	H04 N	5/21	
	WO 94/09592	04-28-1994	PCT	H04 N	5/213	

<b>OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)</b>	
	"Noise reduction in image sequenced using motion-compensated temporal filtering" by E. Dubois and M. Sabri. <i>IEEE Trans. on Communication</i> , 32(7):826-831, 1984.
	"Noise reduction filters for dynamic image sequence: a review" by J.C. Brailean et al. <i>Proceedings of the IEEE</i> , 83(9):1272-1292, September 1995.
	"The robust estimation of multiple motions: parametric and piecewise smooth flow fields" by M. Black and P. Anandan. <i>Computer Vision and Image Understanding</i> , 63:75-104, January 1996.

EXAMINER	DATE CONSIDERED
<small>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small>	